



Paolo, 37 years old
“With **benesserebio**[®],
mould, condensation
and moisture are no
longer a problem”.

We take
care of your
home.



benesserebio[®]

The first thermo-dehumidifying, heat cell-based bio-render that protects your home from all types of humidity and saves you energy.

Natural product for bio-building.

benesserebio® the Kerakoll quality

At Kerakoll, we have always worked to improve the well-being, health and quality of life of people living in houses. Our constructive philosophy is characterized by low environmental impact in order to promote a new and better quality of living.

benesserebio® the first thermo- dehumidifying bio-render

A new way of looking at plaster/ render, transforming it into a technology for well-being: the warm bio-render.

A revolutionary dry and thermal layer that isolates and protects the walls of your home forever and the well-being of the people who live there.

benesserebio® the only one with double CE mark

The thermo-dehumidifying bio-render is the only one with double CE mark.

Classified **R** as restoration mortar and **T** as thermal plaster/render and resistance class **CSII**, it ensures incomparable performance and efficiency over time.



benesserebio® natural product for bio-building

Each Kerakoll solution derives from in-depth scientific research in the field of health and well-being. It is made by combining technology and eco-compatibility, in a unique and incomparable GreenBuilding proposal. **Benesserebio®** is the only anti-mould and anti-condensation bio-render compliant with standard EN ISO 13788.



benesserebio® more thermo-evaporating power



12.5 ^{**}
litres of water
extracted
per day

**heat
evaporating
power**

** Value referred to thermo-dehumidification of 90 m² of masonry (for a house of 20x10 m and an average height of 1.5 m).
Plaster/render thickness: 3 cm.

The thermo-evaporating power is the force of disposal and drying of water accumulated in the masonry in the form of steam. This is the fundamental data for establishing the efficiency of a restoration plaster/render.

It has been calculated that **benesserebio®** is able to evaporate more than **12.5 litres of water in just 24 hours**.

benesserebio® warmer and drier



+3 °C ^{**}
warmer
and drier
surface

**anti-mould
anti-condensation**

** Increase in internal surface temperature compared to the unplastered traditional masonry.
Plaster/render thickness: 3 cm.

The unique heat cell, high pore-content technology ensures a warmer and drier surface. **Benesserebio®** is able to **heat the wall surface by a good 3 °C**, thus ensuring the total absence of mould and condensation in indoor environments. Certified figure according to standard EN ISO 13788.

benesserebio® more energy saved



14000 ^{**}
kWh
energy
saved
per year

**thermal
insulation**

** Value referred to thermo-dehumidification of 180 m² of traditional masonry (for a house of 20x10 m and an average height of 3 m).
Plaster/render thickness: 3 cm.
Climatic area E (Modena) heating period according to Italian Presidential Decree no. 412/93.

With a simple 3 cm layer of **benesserebio®** you can **save more than 14000 kWh of energy** every year and heat every floor of your house.

The warm bio-render **ensures energy savings of 30%** compared to traditional masonry; **benesserebio®** as well as being an innovative thermo-dehumidifying bio-render is also a mineral micro-panelling system that improves the energy efficiency of the walls of your home.

benesserebio® more coverage



+55% ^{**}
more
square
metres

**extremely
high
coverage**

** Figure calculated with respect to the standard coverage of conventional restoration plasters/renders.

The exclusive formula ensures a light mixture with high coverage **that allows to plaster 55% to 100% more surface**. **Benesserebio®** guarantees the easiest and quickest workability ever achieved by any other masonry plaster/render.



Kerakoll: the home experts for your well-being



benesserebio®

Kerakoll GreenLab research laboratories revolutionize the standards in the restoration and energy efficiency of the walls to improve the liveability of the living environments and ensure the biophysical well-being inside the home.

Kerakoll GreenLab's green building engineers have opened a new era in the definition of standards for restoration plasters based on the perfect knowledge of the thermo-hygrometric and chemical-physical phenomena that occur within the walls: the first thermo-dehumidifying warm plaster/render is born.

The new **benesserebio®** bio-render is the result of decades of technical and on-site knowledge by Kerakoll engineers and researchers, and of in-depth studies on new innovative mineral materials with unique characteristics that provide unequalled evaporating power, a natural anti-condensation and permanent anti-mould behaviour and a better thermal efficiency.

The challenge has been won: heat cell technology is born. Walls plastered with **benesserebio®** can be restored quickly and maintain their evaporating power over time, are warmer, and thermally insulate the wall to allow more efficient indoor climate control and energy savings.

Benesserebio® transforms the walls of your home into a source of well-being.

Build in a better way, go back to nature



Natural NHL lime

It regulates the ductility of the plaster/render, makes it compatible with all types of masonry and improves the workability of the mixture. It provides natural breathability superior to all cement-based plasters.



Natural active principles

They ensure a higher porosity of the plaster/render without the use of chemical agents, and a total chemical and biological inertia. They increase the thermal insulation and the energy efficiency of the plaster/render.



Inert minerals

The quality and careful selection of only the best mixtures of natural inert material guarantees that **benesserebio®** possesses a high mechanical strength and extraordinary characteristics of lightness and workability on site.

benesserebio®: the heat that dries the walls and saves energy

The solution for all types of walls and all types of humidity

Benesserebio® is the first warm thermo-dehumidifying bio-render that provides the final solution for the restoration of walls from humidity and the prevention of condensed humidity.

Benesserebio® bio-render guarantees the benefits of thermo-dehumidification that specifically targets damp and moisture rising from condensation in all areas of the wall, from those in contact with the ground to those exposed to air and in contact with structural elements. **Benesserebio®** offers the benefits of heat therapy that, without resorting to external panelling systems, prevents heat dispersal, prevents the appearance of mould and fungi on walls, and guarantees considerable energy savings over time.

Thermo-dehumidification's secret: its heat cells

All new and old masonry may present a high percentage of humidity and low temperatures, and may lose their protective properties and cause a dangerous lowering of the living comfort. The technological core of the new bio-render is *open-pore heat cell technology* that offers very high thermal properties and increases the evaporating power. **Benesserebio®** bio-render is consisting mainly of pure natural highly breathable lime, natural active principles and recycled inert eco-pores; an exclusive formula created by Kerakoll's GreenLab Research and Development laboratories.

Benesserebio® is the groundbreaking, high-degree thermo-dehumidifying capacity bio-render able to successfully treat high levels of rising damp and condensation. Its innovative heat cell-based technology is activated in contact with the air and retains heat by increasing the surface temperature of the wall by 3 °C.

Thermo-dehumidification: How does it work?

Benesserebio® is the first thermo-dehumidifying bio-render; its groundbreaking formula will finally solve both problems of capillary moisture rising and problems of mould and condensation in the home, thus restoring the ideal state of well-being of internal environments.

When the packaging is opened and mixed with water, **benesserebio®**, once applied, starts to dry, activating the heat cells and reaching the ideal temperature in 28 days. Thus begins the process of open-pore thermo-dehumidification and in depth-restoration of any kind of old salt-damp walls subject to capillary rising.

The thermo-evaporating power developed by heat cell-based green technology ensures constant extraction from the wall of about 12.5 litres of water per day ** and its disposal in the environment in the form of water vapour.

The well-being, heat cell-based technology increases the surface temperature of the wall by 3 °C in a smooth and controlled way, thus guaranteeing the impossibility of moulds, fungi and bacteria forming and taking root on masonry walls. The increase in the temperature of the plaster/render prevents the formation of superficial condensation: **benesserebio®** behaves like a real anti-condensation micro-panelling system and is able to replace the external panelling systems in the prevention of condensation on walls compromised by high humidity and/or strong thermal contrasts, finally solving any problem of superficial condensation.

Benesserebio®: it protects from both cold and heat

The thermo-dehumidifying technology of **benesserebio®** not only guarantees healthy environments but isolates and protects buildings thanks to its exceptional thermal characteristics that save up to 14000 kWh per year **.

The smooth multicellular structure protects walls from the cold in the winter and from the heat in the summer.

The thermo-insulating performance of **benesserebio®** ensures a high thermal lag that allows to dampen temperature fluctuations within the environment, mitigating the effects of external climatic conditions and ensuring the best living comfort and a real energy saving for air conditioning in both winter and summer.

Benesserebio®: extremely high coverage on the building site

The groundbreaking formula of **benesserebio®** guarantees 55% to 100% more coverage than the common products on the market. **Benesserebio®**, in its practical waterproofed 18 kg packaging, can be easily applied by hand or machine using normal mechanical building site equipment and guarantees never-seen-before workability. Try and feel the difference!

Warmer surface

Thanks to the innovative heat cells technology, the plaster/render surface is heated by 3 °C, restoring comfort and well-being to the interiors of the home.

Heat cell technology

The technological core of the new bio-render is *open-pore heat cell technology* that offers very high thermal properties and increases the evaporating power.

Cold and damp masonry

All new and old masonry may present a high percentage of humidity and low temperatures, and may lose their protective properties and cause a dangerous lowering of the living comfort.

Anti-mould- and anti-condensation-compliant

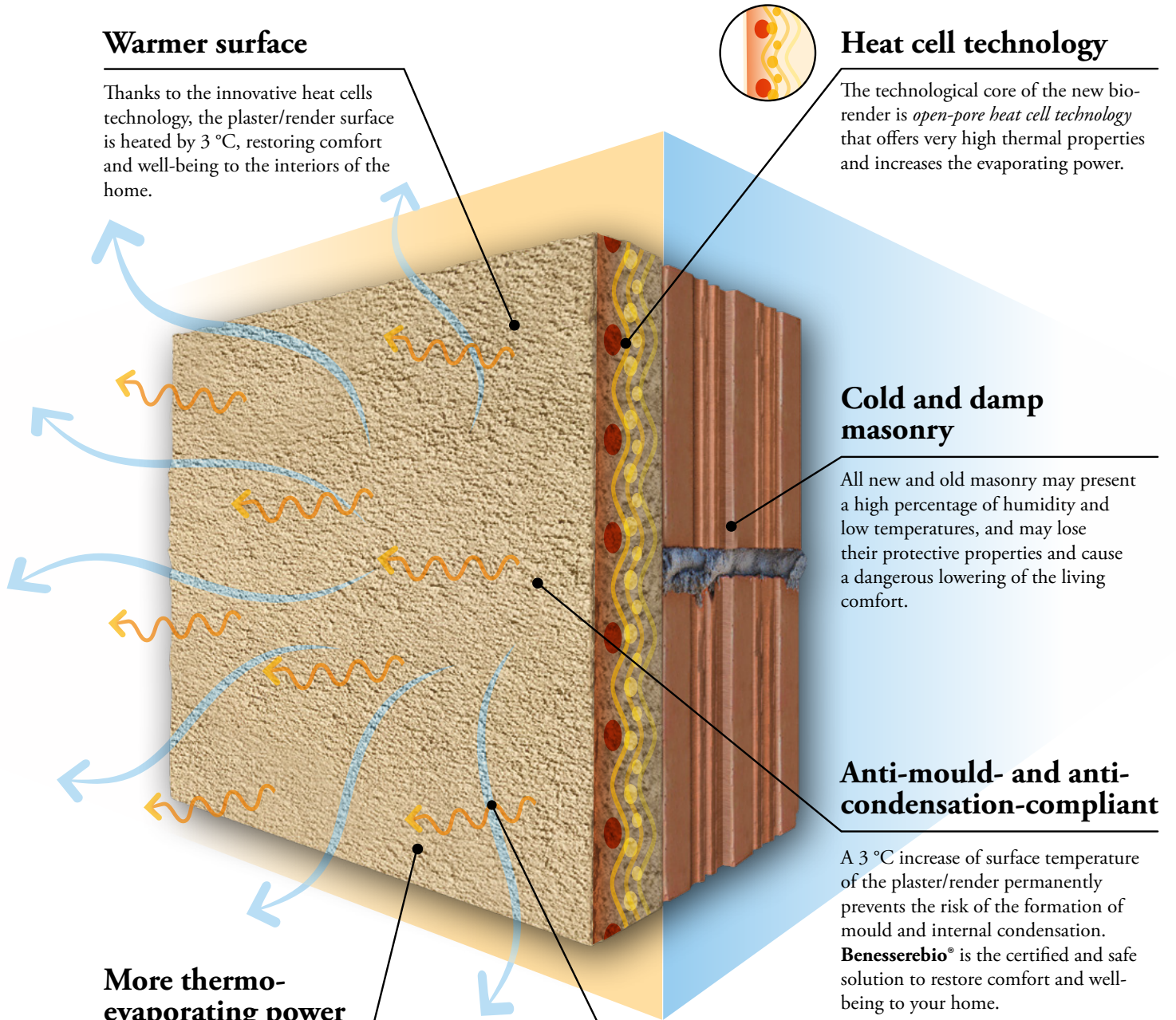
A 3 °C increase of surface temperature of the plaster/render permanently prevents the risk of the formation of mould and internal condensation. **Benesserebio**® is the certified and safe solution to restore comfort and well-being to your home.

More thermo-evaporating power

Thanks to the thermal gradient and the innovative heat cells high porosity, **benesserebio**® develops an unprecedented thermo-evaporating power to ensure the thermo-dehumidification of all types of masonry and all types of humidity.

More energy savings

The thermostatic and porous surface of **benesserebio**® keeps the heat in winter and preserves summer cooling. Thanks to the innovative heat cells, the thin layer of bio-render works like a thermal micro-panelling system for the masonry and significantly improves the energy efficiency of the house.



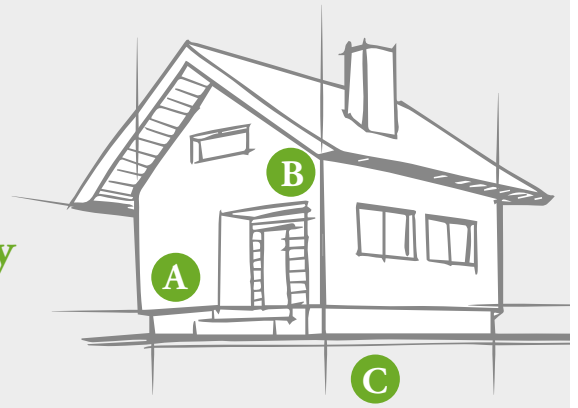


Advantages on the building site

- single product, the best workability during all stages of application
- lighter and smoother to flatten, you work faster with less effort
- can be applied by hand or machine using normal mechanical building site equipment
- more coverage, it covers more square metres, so you can move less material on the building site
- practical and easy-to-transport waterproofed 18kg bag
- natural product for bio-building



The simple and effective solution for every humidity problem



A - External façades

RESTORATION FROM CAPILLARY MOISTURE RISING

- it thermo-dehumidifies the wall in a very short time
- it solves the problem of salts
- it protects the wall from bad weather



B - Interior walls

THE SOLUTION AGAINST THE FORMATION OF CONDENSATION AND MOULD

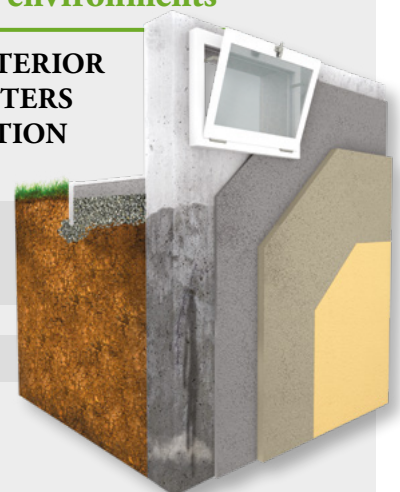
- it eliminates mould and condensation
- it makes indoor environments warmer and healthier
- it increases energy efficiency



C - Underground foundation environments

IT SOLVES INFILTRATIONS IN EXTERIOR FOUNDATION WALLS AND COUNTERS THE FORMATION OF CONDENSATION AND MOULD

- combined with the application of osmotic waterproofing, it solves the infiltration of water from the ground
- it eliminates mould and condensation





benesserebio®
 protect your home and your well-being



KERAKOLL Spa

via dell'Artigianato, 9 – 41049 Sassuolo (MO) Italia
 Tel. +39 0536 816 511 – Fax +39 0536 816 581
 info@kerakoll.com www.kerakoll.com